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PATENT COOPERATION TREATY

From the

INTERNATIONAL PRELIMINARY EXAMINING

To:

YOU ME Patent & Law Firm

Teheran Bldg., 825-33 Yoksam-dong, Kangnam-ku, Seoul 135-080, Republic of KOREA



NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing (day/month/year) 29 JUNE 2004 (29.06.2004)

Applicant's or agent's file reference OPP020527KR

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)
17 SEPTEMBER 2002 (17.09.2002)

Priority date (day/months/year)
05 JULY 2002 (05.07.2002)

PCT/KR2002/001743
Applicant

SAMSUNG ELECTRONICS CO., LTD. et al

- 1. The applicant is hereby notified that International Preliminary Examining Authority transmits here with the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report(but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details in the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

COMMISSIONER

Telephone No. 82-42-481-5198



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference OPP020527KR	FOR FURTHER ACTION		onofTransmittalofInterna Report (Form PCT/IPEA	•
International application No. PCT/KR2002/001743	International filing date(day/mo 17 SEPTEMBER 2002 (Priority date (day/mon	
International Patent Classification (IPC) IPC7 G02F 1/133			<u> </u>	
Applicant SAMSUNG ELECTRONICS	CO., LTD. et al			
This international preliminary ex and is transmitted to the applicant		red by this Inter	national Preliminary Ex	amining Authority
amended and are the basis i	ofsheets, include anied by ANNEXES, i.e., sheets for this report and/or sheets contact Administrative Instructions under Administrative Instructions under the Instructions under the Instruction of	of the description	n, claims and/or drawing	
These annexes consist of a total	ofsheets.			
IV Lack of unity of inv V X Reasoned statemen citations and explan VI Certain documents of the VIII Certain defects in the Certain observations	of opinion with regard to novelty, ention t under Article 35(2) with regard ations supporting such statement cited the international application s on the international application	to novelty, inven	tive step or industrial ap	
Date of submission of the demand 29 JANUARY 2004 (29.01.2004)		of completion of 28 JUNE 200	this report 4 (28.06.2004)	
Name and mailing address of the IPEAA Korean Intellectual Property 920 Dunsan-dong, Seo-gu, Republic of Korea Facsimile No. 82-42-472-7140	KR Author Daejeon 302-701,	orized officer KOH, Jong Woo hone No. 82-42		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No. PCT/KR2002/001743

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I.	Basis	s of the report						
1.	With	regard to the elements of the international application:*						
	X	the international application as originally filed						
		the description:						
		pages	, as originally filed					
		pages , filed with the letter of	, filed with the demand					
		pages, filed with the letter of						
		the claims:						
		pages, as amended (together w	, as originally filed					
		pages, as amended (together w						
		pages, filed with the letter of						
	ш	the drawings: pages	as originally filed					
		pages						
		pages, filed with the letter of						
	П	the sequence listing part of the description:						
		pages	, as originally filed					
		pages	, filed with the demand					
		pages, filed with the letter of						
	Thes	international application was filed, unless otherwise indicated under this item. see elements were available or furnished to this Authority in the following language the language of a translation furnished for the purposes of international search (under R the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary or 55.3).	ule 23.1(b)).					
3.		th regard to any nucleotide and/or amino acid sequence disclosed in the international liminary examination was carried out on the basis of the sequence listing: contained inthe international application in written form.	application, the international					
		filed together with the international application in computer readable form.						
	Ш	furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form						
		The statement that the subsequently furnished written sequence listing does not international applicationas as filed has been furinshed.	statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the ational applicationas as filed has been furinshed.					
		The statement that the information recorded in computer readable form is identical to been furnished.	o the written sequence listing has					
4.		The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
_		the drawings, sheet						
5.		This report has been established as if (some of) the amendments had not been made, go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).						
*	in thi	acement sheets which have been furnished to the receiving Office in response to an invitat is opinion as "originally filed." and are not annexed to this report since they do not co 70.17).						
*1	Any r	replacement sheet containing such amendments must be referred to under item I and ann	exed to this report.					

INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No. PCT/KR2002/001743

 V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 						
ment						
elty (N)	Claims	1-14	YES			
	Claims		NO			
entive step (IS)	Claims	1-14	YES			
	Claims		NO			
strial applicability (IA)	Claims	1-14				
	Claims					
		ement celty (N) Claims Claims chive step (IS) Claims Claims Claims Claims Claims	tions and explanations supporting such statement Tentro (N) Claims I-14 Claims Tentro (Step (IS) Claims I-14 Claims Claims Tentro (Step (IS) Claims I-14 Claims Tentro (Step (IS) Claims I-14 Claims Tentro (Step (IS) Claims I-14			

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: US 5790089 A D2: US 6232939 A

The present invention relates to a liquid crystal display and a driving method thereof.

D1 discloses a method for driving an active matrix type liquid crystal display device. As shown in FIG. 18 of D1, the picture element at an intersecting portion is supplied with a different signal for each selection period within a black display period, whereby the liquid crystal panel is displayed black. The difference to the claimed invention is that in D1, the liquid crystal panel has the structure of a set of liquid crystal layers and two-terminal active layers are connected in a series between a set of column electrodes and a set of row electrodes.

In Claims 1, 3, 8, 11 and 13 of the present invention, the data signals include normal data signals and a black data signal. However, different from D1, the data driver alternately applies the normal data signals and the black data signal to the pixels under control of the signal controller, and the scanning direction of the normal data signals is opposite in adjacent frames.

Therefore, the invention, as in Claims 1-14, is considered to be novel and to involve an inventive step.